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3. Document Type:  <table border="0"><tr><td><input type="checkbox"/> Letter</td><td>a. If letter or memo:</td></tr><tr><td><input type="checkbox"/> Memorandum</td><td>To:</td></tr><tr><td><input type="checkbox"/> Report</td><td>From:</td></tr><tr><td><input type="checkbox"/> Publication</td><td>Subject:</td></tr><tr><td><input checked="" type="checkbox"/> Other (Specify) (Note to file)</td><td>b. If report:</td></tr><tr><td>Subject: CERT</td><td>Title:</td></tr><tr><td>EXPERIMENT (FUEL MELTDOWN)</td><td></td></tr></table>			<input type="checkbox"/> Letter	a. If letter or memo:	<input type="checkbox"/> Memorandum	To:	<input type="checkbox"/> Report	From:	<input type="checkbox"/> Publication	Subject:	<input checked="" type="checkbox"/> Other (Specify) (Note to file)	b. If report:	Subject: CERT	Title:	EXPERIMENT (FUEL MELTDOWN)	
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EXPERIMENT (FUEL MELTDOWN)																
4. Document Date:  October 20, 1964	c. If publication: Name: Volume: Issue:															
5. Summary (2-3 lines indicating the major subject(s) of the document):  This document contains notes from a meeting held on October 19, 1964 regarding the desirability and feasibility of performing a CERT test using an irradiated fuel specimen as the iodine 131 source.																
6. Name and telephone number of person completing form:  Don C. Bradley (208) 525-0203	7. Organization:  Lockheed Idaho Technologies Co.	8. Date:  June 9, 1995														
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## HUMAN RADIATION EXPERIMENTS

## RECORDS PROVENANCE FORM

REPOSITORY NAME	INEL
COLLECTION NAME	CONTROLLED ENVIRONMENTAL RADIOIODINE TESTS (CERT)
BOX NUMBER	INEL BOX NO. 22305 FRC AGENCY BOX NO. 30 FRC NO. 150673 ACCESSION NO. 430 78 0073
ADDITIONAL LOCATION INFORMATION	THE BOX IS STORED AT THE FEDERAL RECORDS CENTER (FRC) IN SEATTLE, WA. INEL RECORD STORAGE RECEIPT NUMBER IS 2506  FOLDER: BRANCH READING SEPTEMBER - OCTOBER 1964
FILE TITLE	CERT EXPERIMENT (FUEL MELTDOWN)
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DOCUMENT NO.: T070821

DOCUMENT TITLE: CERT EXPERIMENT (FUEL MELTDOWN)

CROSS REFERENCES:

ITEMS OF INTEREST:

File

October 20, 1964

W. P. Gemmill, Chief  
Health Physics Branch

**CERT EXPERIMENT (FUEL MELTDOWN)**

HSHP:WFG

On 10-19-64, a meeting was held to discuss the desirability and feasibility of performing a CERT test next summer (July - August) using an irradiated fuel specimen as the I-131 source.

Attendees included the following:

W. T. Price	-	GD/PW
D. Ross	-	GD/PW
Peter Davis	-	ID-JD
Ormond Cordes	-	PFCo.
G. Dimmen	-	PFCo.
W. P. Gemmill	-	ID-HES

Everyone was in agreement that such a test was highly desirable. It was suggested that we should consider a steam saturated atmosphere to simulate LOFT. If this is desirable, we should probably perform two releases (with and without steam) over crested wheatgrass prior to deciding which to use on the pasture. No grazing is planned for the first two releases.

Pete Davis is to check on the possibility of obtaining Zr clad  $UO_2$  fuel specimens from Oak Ridge, inasmuch as they are being fabricated for Parker's investigations. I told Pete that if we increase the scope of this test primarily because of LOFT (i.e. steam atmosphere, three tests, Zr clad fuel), we will probably have to have some financial assistance from the LOFT program.

GD-PW is very much interested in participating in such a test. They have the necessary equipment and experienced personnel to perform the fuel melting. Since ID would handle all sample collection and analysis, GD/PW would send only three people and two trailers up for the test. Mr. Price will give me a preliminary cost estimate later this week.

REPOSITORY INEL

COLLECTION CERT

INEL#22305, FRC BOX 30

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File: Branch Reading Sept/Oct. 1964

FOLDER CERT Experiment (Fuel Meltdown)

File

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October 20, 1964

I told Price that we would firm up our plans by December 1, and give him more definite information on which to base a formal proposal. He estimated that preparation of such a proposal would require about two weeks. This time table would allow us to prepare our 139 by the first week in January.

I plan to discuss all of the foregoing with Dick Hanes this week to avert in legal entanglements.

cc: H. V. Batie

HSHP

WPG:mll:dc

10-20-64

Hqs Reading File